

Claims of Application No. 10/519,735	Japanese Priority Appln. 2002-221000
<p>1. A disc cartridge for storing a disc that has a first side with a first functional portion and a second side, the disc cartridge comprising:</p> <p style="padding-left: 40px;">a cartridge body including a disc storage portion, a chucking opening and a head opening, wherein the disc storage portion has a disc window and a bottom and stores the disc therein so that the first side thereof is exposed through the disc window; the chucking opening is provided on the bottom of the disc storage portion so as to get the disc chucked externally; and the head opening is also provided on the bottom of the disc storage portion so as to allow a head, which reads and/or writes data from/on the second side of the disc, to access the second side of the disc;</p> <p style="padding-left: 40px;">a shutter, which is supported to, and movable with respect to, the cartridge body so as to expose or cover at least the head opening; and</p> <p style="padding-left: 40px;">a second functional portion, which is provided for the cartridge body and which produces an audiovisual effect by cooperating with the first functional portion of the disc.</p>	<p>The Japanese priority application discloses a disc cartridge 110 for storing a disc 10 that has a first side 11 with a first functional portion 12, 13 and a second side 2.</p> <p style="padding-left: 40px;">The disc cartridge includes a body 110 having a disc storage portion 110d, an opening 110w for the chucking and reading head on the lower surface thereof. Fig. 3 shows the cartridge being installed in a disc drive such that the spindle motor 182 engages the opening in the disc and the optical pickup 181 functions for reading or writing to or from the disc. Although not specifically shown or described in the Japanese priority document, a shutter within the cartridge body movable to expose or cover the head opening was well known in the art at the time and is inherent in the Japanese priority application.</p> <p style="padding-left: 40px;">As best shown in Fig. 1, the Japanese priority application discloses a second functional portion 113a of the cartridge which cooperates with the first functional portion 12, 13 of the disc to provide the desired audio visual effect.</p>
<p>2. The disc cartridge of claim 1, wherein the first and second functional portions produce a visual effect by cooperating with each other.</p>	<p>See Fig. 1.</p>
<p>5. The disc cartridge of claim 2, wherein the first functional portion is a first design provided on the first side, the second functional portion is a second design provided on a portion of the upper surface of the cartridge body near the disc window, and the first and second designs are combined together to make up a third design that looks like a single continuous design.</p>	<p>See Fig. 1.</p>
<p>6. The disc cartridge of claim 5, wherein the first design is a picture drawn on the first side and the second design is a picture</p>	<p>See Fig. 1.</p>

drawn on the upper surface.	
7. The disc cartridge of claim 6, wherein the first and second designs are planar.	See Fig. 1.
8. The disc cartridge of claim 6, wherein the first and second designs are embossed.	See Fig. 1.
9. The disc cartridge of claim 8, wherein the depth of the first embossed design is substantially equal to that of the second embossed design.	See Fig. 1
10. The disc cartridge of claim 6, wherein the first side of the disc and the upper surface of the cartridge body are textured.	See Fig. 1
<p>27. A disc drive comprising:</p> <ul style="list-style-type: none"> a supporting portion into which the disc cartridge of claim 1 is loadable, a disc having a first side with a first functional portion and a second side being stored in the disc cartridge; a spindle motor for mounting and rotating the disc thereon; a head, which is able to read and/or write data from/on the second side of the disc; a sensor for detecting a rotational angular position of the spindle motor when the disc is mounted on the spindle motor; and a control section for controlling the spindle motor in accordance with a command to eject the disc cartridge such that the spindle motor stops at the rotational angular position when the disc is mounted thereon. 	<p>The Japanese priority application discloses a supporting portion (110d) in which the disc cartridge is loadable, a spindle motor (182) a read/write head (181), a sensor for detecting rotational angular position of the spindle motor (194) and a control section for controlling the spindle motor (190) so that the spindle motor stops at the rotational angular position when the disc is mounted thereon (see the paragraph beginning in the middle of page 22 of the English translation of the Japanese priority application).</p>
<p>28. A disc drive comprising:</p> <ul style="list-style-type: none"> a supporting portion into which the disc cartridge of claim 1 is loadable, a disc having a first side with a first functional portion and a second side being stored in the disc cartridge; a spindle motor for mounting and rotating the disc thereon; a head, which is able to read and/or write data from/on the second side of the disc; a sensor for detecting a mark on the second side of the disc; and a control section for controlling the 	<p>The Japanese priority application discloses a supporting portion (110d) in which the disc cartridge is loadable, a spindle motor (182) a read/write head (181), a sensor for detecting rotational angular position of the spindle motor (194) and a control section for controlling the spindle motor (190) so that the spindle motor stops at the rotational angular position when the disc is mounted thereon (see the paragraph beginning in the middle of page 22 of the English translation of the Japanese priority application).</p>

spindle motor such that the spindle motor stops at a position where the mark of the disc is detected.	
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